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| APPLICATION NO. | FILING DATE | FIRST NAMED INVENTOR | ATTORNEY DOCKET NO. | CONFIRMATION NO. |
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| 10/634,261 | 08/05/2003 | Frank P. Baldiga | RSW920030052US1 | 7054 |

7590 02/27/2007
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EXAMINER

WHIPPLE, BRIAN P

| ART UNIT | PAPER NUMBER |
|----------|--------------|
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2152

| SHORTENED STATUTORY PERIOD OF RESPONSE | MAIL DATE | DELIVERY MODE |
|--|------------|---------------|
| 3 MONTHS | 02/27/2007 | PAPER |

Please find below and/or attached an Office communication concerning this application or proceeding.

If NO period for reply is specified above, the maximum statutory period will apply and will expire 6 MONTHS from the mailing date of this communication.

| | | | |
|------------------------------|------------------------|---------------------|--|
| Office Action Summary | Application No. | Applicant(s) | |
| | 10/634,261 | BALDIGA ET AL. | |
| | Examiner | Art Unit | |
| | Brian P. Whipple | 2152 | |

-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address --

Period for Reply

A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) OR THIRTY (30) DAYS, WHICHEVER IS LONGER, FROM THE MAILING DATE OF THIS COMMUNICATION.

- Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication.
- If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication.
- Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).

Status

- 1) ☒ Responsive to communication(s) filed on 05 August 2003.
- 2a) ☐ This action is **FINAL**. 2b) ☒ This action is non-final.
- 3) ☐ Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under *Ex parte Quayle*, 1935 C.D. 11, 453 O.G. 213.

Disposition of Claims

- 4) ☒ Claim(s) 1-20 is/are pending in the application.
- 4a) Of the above claim(s) _____ is/are withdrawn from consideration.
- 5) ☐ Claim(s) _____ is/are allowed.
- 6) ☒ Claim(s) 1-20 is/are rejected.
- 7) ☐ Claim(s) _____ is/are objected to.
- 8) ☐ Claim(s) _____ are subject to restriction and/or election requirement.

Application Papers

- 9) ☐ The specification is objected to by the Examiner.
- 10) ☐ The drawing(s) filed on _____ is/are: a) ☐ accepted or b) ☐ objected to by the Examiner.
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).
Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).
- 11) ☐ The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.

Priority under 35 U.S.C. § 119

- 12) ☐ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
- a) ☐ All b) ☐ Some * c) ☐ None of:
1. ☐ Certified copies of the priority documents have been received.
2. ☐ Certified copies of the priority documents have been received in Application No. _____.
3. ☐ Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).

* See the attached detailed Office action for a list of the certified copies not received.

Attachment(s)

- | | |
|--|---|
| 1) <input checked="" type="checkbox"/> Notice of References Cited (PTO-892) | 4) <input type="checkbox"/> Interview Summary (PTO-413) |
| 2) <input type="checkbox"/> Notice of Draftsperson's Patent Drawing Review (PTO-948) | Paper No(s)/Mail Date. _____ |
| 3) <input checked="" type="checkbox"/> Information Disclosure Statement(s) (PTO/SB/08) | 5) <input type="checkbox"/> Notice of Informal Patent Application |
| Paper No(s)/Mail Date <u>08/05/2003</u> | 6) <input type="checkbox"/> Other: _____ |

DETAILED ACTION

1. Claims 1-20 are pending in this application and presented for examination.

Claim Rejections - 35 USC § 102

2. The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless –

(b) the invention was patented or described in a printed publication in this or a foreign country or in public use or on sale in this country, more than one year prior to the date of application for patent in the United States.

3. Claims 1-2, 9-11, 14-16, and 18-20 are rejected under 35 U.S.C. 102(b) as being anticipated by Okano et al. (Okano), U.S. Publication No. 2002/0062485 A1.

4. As to claim 1, Okano discloses a method for assigning a device identifier to a device (Abstract), the method comprising:

receiving a request for the device identifier at a server ([0084], ln. 1-5; [0088], ln. 1-4);

obtaining the device identifier ([0092]; temporarily allocated IP addresses are set);

marking a status of the device identifier as pending ([0092]; the IP addresses are set as temporarily allocated, which is marking the device identifiers as pending);

sending the device identifier to the device ([0098]);

marking the status of the device identifier as in use after receiving an acknowledgment from the device ([0099]; [0102]); and
sending a confirmation to the device after the acknowledgment is received ([0102]; [0110]).

5. As to claim 2, Okano discloses receiving a second acknowledgment from the device ([0110]-[0111]; [0149]-[0151]; it is inherent in and a standard feature of DHCP, which is taught by Okano, that a second acknowledgement is sent from a device to renew its lease); and

sending a second confirmation to the device ([0102]; [0110]-[0111]; [0147]-[0151]; it is inherent in and a standard feature of DHCP, which is taught by Okano, that a server sends a confirmation to renewal requests in the form of a DHCPACK message to extend a device's lease).

6. As to claim 9, Okano discloses reusing the device identifier for another request received from another device after a time out period has elapsed ([0200]); and

sending a rejection to the device if the acknowledgment is received after the time out period has elapsed ([0200]; the timed out subscriber terminal is disabled to use the IP address, which is a rejection).

7. As to claim 10, Okano discloses a method of obtaining a device identifier for a device (Abstract), the method comprising:

sending a request for the device identifier to a server ([0084], ln. 1-5; [0088], ln. 1-4);

sending an acknowledgment to the server after receiving the device identifier from the server ([0092]; [0098]-[0099]; [0102]; an acknowledgement is sent to the server in the form of a DHCP request packet); and

using the device identifier after receiving a confirmation from the server ([0102]; [0110]-[0111]).

8. As to claim 11, Okano discloses a timestamp is also received from the server, and wherein the acknowledgment includes the device identifier and the timestamp ([0092]; [0110]-[0111]; a lease time is set, which is a timestamp).

9. As to claim 14, Okano discloses sending a second acknowledgment to the server if the confirmation has not been received after a time out period (Abstract; it is inherent in and a standard feature of DHCP, which is taught by Okano, that a second acknowledgement is sent to the server after a time out period).

10. As to claims 15 and 18, the claims are rejected for the same reasons as claim 1 above.

11. As to claims 16 and 19, the claims are rejected for the same reasons as claim 10 above.

12. As to claim 20, the claim is rejected for the same reasons as claim 9 above.

Claim Rejections - 35 USC § 103

13. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negated by the manner in which the invention was made.

14. Claims 3-7, 12-13, and 17 are rejected under 35 U.S.C. 103(a) as being unpatentable over Okano as applied to claims 1, 10, and 15 above, in view of Matsuda et al. (Matsuda), U.S. Publication No. 2002/0133573 A1, and with Poger et al. (Poger), U.S. Patent No. 6,772,420 B1, providing intrinsic evidence for claims 4 and 13.

15. As to claim 3, Okano does not disclose managing a set of device entries at the server, wherein each of the set of device entries includes a device identifier, a status, and correlation data, and wherein the request includes correlation data for the device.

However, Matsuda does disclose managing a set of device entries at the server ([0064], ln. 1-4),

wherein each of the set of device entries includes a device identifier, a status, and correlation data ([0064]; a MAC address and an IP address are device identifiers; a name_in_use code is a status; a host name is correlation data), and

wherein the request includes correlation data for the device ([0065], ln. 1-7; a host name is included in the request for configuration of the device).

It would have been obvious to one of ordinary skill in the art at the time of the invention to modify the teachings of Okano by managing a set of device entries at a server, the device entries including a device identifier, a status, and correlation data and by including correlation data for a device in a request as taught by Matsuda in order to provide automatic configuration services for unadministered networks while being automatically adaptable within administered environments (Matsuda, Abstract, ln. 4-7), in order to enable a server to keep track of a device's MAC address and corresponding host name and IP address (Matsuda, [0064]), and in order to allow a client to suggest desired settings in a request (Matsuda, [0065], ln. 5-7).

16. As to claims 4 and 13, Okano and Matsuda further disclose the correlation data includes a device type and user data (Matsuda: [0064]; [0065], ln. 1-7; a host name is user data; a MAC address associated with a DHCP request is correlation data; it is inherent that a device type is included in the correlation data as device type information is embedded in the MAC address, which is in turn embedded in DHCP messages, see Poger, Col. 3, ln. 19-31 and Col. 4, ln. 48-55).

17. As to claim 5, Okano further discloses each of the set of device entries further includes a timestamp, the method further comprising setting the timestamp when the status is marked as pending ([0092]; temporarily allocated IP addresses are made and

lease times are set, which is setting a timestamp when the status is marked as pending).

18. As to claim 6, Okano does not disclose providing correlation data at the server; generating at least one device identifier based on the correlation data before the request is received;

marking the status of the generated at least one identifier as unused; and locating one of the at least one device identifier having a status marked as unused after the request is received using the correlation data for the at least one device identifier and correlation data in the request.

However, Matsuda does disclose providing correlation data at the server ([0077]-[0078]; a preset address range is associated with clients requesting IP addresses from the DHCP server, wherein the preset address range at the DHCP server is correlation data at the server);

generating at least one device identifier based on the correlation data before the request is received ([0077]-[0078]; [0079], ln. 1-3; a maximum of 100 addresses is generated based on the preset address range);

marking the status of the generated at least one identifier as unused (Fig. 7, item 720); and

locating one of the at least one device identifier having a status marked as unused after the request is received using the correlation data for the at least one device identifier and correlation data in the request (Fig. 7, items 704, 706, 708, and

720; [0065]; [0077]-[0078]; an IP address that is not in use is located after the request is received; the preset address range for the device identifier and the MAC address, desired IP address, and desired host name in the request are used to configure the device, which is correlation data for the device identifier and correlation data in the request).

It would have been obvious to one of ordinary skill in the art at the time of the invention to modify the teachings of Okano by providing correlation data at a server, generating device identifiers based on the correlation data before a request is received, marking the device identifiers as unused, and locating an unused device identifier using correlation data for the device identifier and correlation data in the request after the request is received as taught by Matsuda in order to define a range of available client addresses (Matsuda, [0077]), in order to allocate those client addresses (Matsuda, [0077]), in order to define the addresses that the DHCP server can assign (Matsuda, [0079], ln. 1-3), and in order to allow a client to suggest a desired IP address and ascertain if the IP address is suitable (Matsuda, [0065], ln. 5-7 and 36-38).

19. As to claim 7, Okano does not disclose generating a device identifier after receiving the request using correlation data in the request.

However, Matsuda does disclose generating a device identifier after receiving the request using correlation data in the request (Fig. 7, items 704, 706, and 708; [0065]; a device identifier is generated using the MAC address, desired IP address, and desired host name in the request, which is correlation data in the request).

It would have been obvious to one of ordinary skill in the art at the time of the invention to modify the teachings of Okano by generating a device identifier after receiving a request using correlation data in the request as taught by Matsuda in order to allow a client to suggest desired settings in a request (Matsuda, [0065], ln. 5-7).

20. As to claim 12, Okano does not disclose the request includes correlation data.

However, Matsuda does disclose the request includes correlation data ([0065], ln. 1-7; a desired host name is included in the request, which is correlation data in the request).

It would have been obvious to one of ordinary skill in the art at the time of the invention to modify the teachings of Okano by including correlation data in a request as taught by Matsuda in order to allow a client to suggest desired settings in a request (Matsuda, [0065], ln. 5-7).

21. As to claim 17, Okano does not disclose a management system for managing a set of device entries, wherein each of the set of device entries includes a unique device identifier, a status, and correlation data, wherein the request includes correlation data for the device; and

a comparison system for obtaining one of the set of device entries based on correlation data for the device.

However, Matsuda does disclose a management system for managing a set of device entries ([0064], ln. 1-4),

wherein each of the set of device entries includes a unique device identifier, a status, and correlation data ([0064]; a MAC address and IP address are unique device identifiers; a name_in_use code is a status; a host name is correlation data),

wherein the request includes correlation data for the device ([0065], ln. 1-7; a host name is included in the request for configuration of the device); and

a comparison system for obtaining one of the set of device entries based on correlation data for the device (Fig. 7, items 704, 706, and 708; [0065]; the desired IP address in the request is used to obtain an IP address, which is correlation data for the device).

It would have been obvious to one of ordinary skill in the art at the time of the invention to modify the teachings of Okano by managing a set of device entries at a management system, the device entries including a unique device identifier, a status, and correlation data and by including correlation data for a device in a request as taught by Matsuda in order to provide automatic configuration services for unadministered networks while being automatically adaptable within administered environments (Matsuda, Abstract, ln. 4-7), in order to enable a management system to keep track of a device's MAC address and corresponding host name and IP address (Matsuda, [0064]), in order to allow a client to suggest desired settings in a request to obtain an IP address (Matsuda, [0065], ln. 5-7), and in order to obtain an IP address so that a device may communicate across an IP network or networks.

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22. Claim 8 is rejected under 35 U.S.C. 103(a) as being unpatentable over Okano as applied to claim 1 above, in view of Meier, U.S. Patent No. 7,096,273 B1.

23. As to claim 8, Okano does not disclose marking the status of the device identifier as unused if the acknowledgment is not received after a time out period.

However, Meier does disclose marking the status of the device identifier as unused if the acknowledgment is not received after a time out period (Col. 2, ln. 8-15).

It would have been obvious to one of ordinary skill in the art at the time of the invention to modify the teachings of Okano by marking a device identifier as unused if an acknowledgement is not received after a time out period as taught by Meier in order to put the device identifier back into a pool ready to be re-used (Meier, Col. 2, ln. 13-15).

Conclusion

24. The prior art made of record and not relied upon is considered pertinent to applicant's disclosure. *RFC 2131: Dynamic Host Configuration Protocol* discloses the standard features of DHCP.

25. Any inquiry concerning this communication or earlier communications from the examiner should be directed to Brian P. Whipple whose telephone number is (571) 270-1244. The examiner can normally be reached on Mon-Thu (9:30 AM to 8 PM EST).

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Bunjob Jaroenchonwanit can be reached on (571) 272-3913. The fax

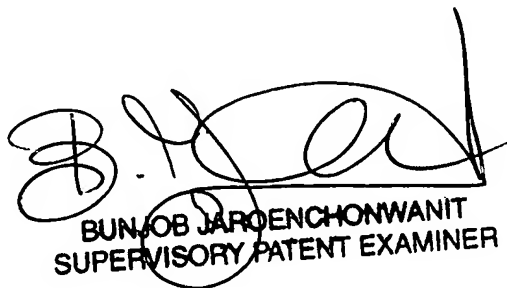
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phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see <http://pair-direct.uspto.gov>. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

BPW

Brian P. Whipple
2/15/07



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SUPERVISORY PATENT EXAMINER